Shakil Mosharrof

Fresh CS Graduate

Portfolio GitHub LinkedIn

EXPERIENCE >

Industrial Trainee Brainstation 23

 $\begin{array}{c} \textbf{Jan 2023 - Feb 2023} \\ \textit{Mirpur DOHS} \end{array}$

 Got hands on training on C# and ASP.NET MVC through Brainstation 23's LMS. During the course, I completed one desktop application project and two web-based projects using ASP.NET.

Capture The Flag (CTF)

TryHackMe

Mentor (Later Vice-President), MIST Cyber Security Club

- Certified for "Junior Penetration Tester" [link]
- Certified for "Attacking Active Windows Directory" [link Badge].
- \bullet Became top 4 % on TryHackMe globally . [link]
- Mentor at MIST Cyber Security Club
- 24th place nationally as team lead.
- Achieved 79th place globally in Kaspersky codebreakers CTF.
- Global rank 97 at BlackHatMEA 2023 CTF Finals.[link]

$\textbf{Stackoverflow} \nearrow |AskUbuntu \nearrow$

Provided 4 solutions

• Solution links: 1 2 3

Competitive programming

2020 - Present

 \bullet Solved over 250+ problems on Geeks ForGeeks, Codeforces and Leetcode

PROJECTS

Software & Autonomous System Developer 2021 - ongoing

Mars Society's University Rover Challenge (URC) USA

Anatolian Rover Challenge (ARC) UKET, Turkey

- Developed an autonomous rover system using software & communication team for URC-2021 competition which became champion globally beating 88 teams in SAR and finally 36 teams in the final Link.
- Developed an autonomous rover system with software & communication team for ARC-2022 competition which became third among 14 final contestant countries .Link
- \bullet Software & Autonomous Team Lead For URC-2023, became 2nd in Asia in SAR stage.
- Software & Autonomous Team Lead For ARC-2023, became 2nd in Asia & 5th globally.

Pretrained CNN-based Dog Classifier | Code | Certificate | Tech Stack | Python, ResNET, VGG16, Machine Learning |

Bus Counter Management System Using JavaFX | Code Tech Stack Swing, JavaFX, Java

Military Communication Equipment Repair and Issuing of Spare Parts Management System | Code

Tech Stack Web Development, HTML, CSS, JS, PHP, OracleDB

Simple weight machine using HX711 and Arduino | Code Tech Stack Arduino, IOT, HX711 sensor

SoccerBot

Tech Stack Arduino, C++

DekhboKinbo | Code

Tech Stack C#, .NET Core MVC,Entity

Alumni Information Management System | Code Tech Stack C#, MySQL

Blockchain-based Land Record management system with biometric authentication | Blockchain (Contract) | Website Tech Stack Blockchain, Django, Arduino, IOT

PyTorch-Create Your Own Classifer |Code|Certificate
Tech Stack Python, CNN, Machine Learning, AWS, Udacity

RESEARCH & PUBLICATIONS > SCHOLAR >

- DeepTriNet: A Tri-Level Attention Based DeepLabv3+ Architecture for Semantic Segmentation of Satellite Images.Link [got the best paper award]
- Performance Analysis of Various EfficientNet Based U-Net++ Architecture for Automatic Building Extraction from High Resolution Satellite Images.Link
- CycleGAN-Based Data Augmentation with CNN and Vision Transformers (ViT) Models for Improved Maize Leaf Disease Classification.Link
- Biomolecular Analysis of Soil Samples and Rock Imagery for Tracing Evidence of Life Using a Mobile Robot [Accepted at ICRAIE - 2023]
- Enhancing Mango Leaf Disease Classification: ViT, BiT, and CNN-Based Models Evaluated on CycleGAN-Augmented Data [Accepted at ICCIT-2023]
- SecureLandChain: A Blockchain-Based Land Registry System with Biometric Authentication and Certificate Verification System [Submitted for a Q1]
- Automatic Literature Review Generation : An Improved LLM-RAG Based Solution Embedded With Regex and T5. [Thesis]

EDUCATION

B.Sc in Computer Science and Engineering

Military Institute of Science and Technology

Higher Secondary School Certificate
Barishal Cadet College

2017 - 2019

Darishai Cadei Conege

SKILLS >

Language Python, C, C++, Git, LATEX, C#,
Bash,PHP, JavaScript, Matlab, SQL

Frontend HTML5, CSS, JS, Bootstrap
Backend Flask, Django, ASP.NET Core
Database MySQL, Firebase

LOT, & Bahatisa Parkery, PL Istaan Nano &

IOT & Robotics Arduino, Raspberry PI, Jetson Nano & Xavier, LIDAR, ZED-Stereo Cam, ESP-

32,PX4 (Pixhawk),ROS,ROS2,MAVROS

App DevelopmentFlutter, Dart

Soft Skills English (business), Bengali (business),

Public Speaking, Extempore Speech

Pentesting Tools& OS Burp Suite, NMap, Metasploit, SQLMap,

Wireshark, Nessus, John The Ripper, Hashcat, Dirb, Volatility, Parrot OS,

Other Linux, PyTorch, TensorFlow, Git, Docker,

MS Excel, MS Word, MS PowerPoint